



GP-2644

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Technology Center 2600

In re Application of

Klaus LINHARD

Application No.: 09/638,499

Group Art Unit: 2644

Filed: August 15, 2000

For: PROCESS AND DEVICE FOR COMPENSATING FOR SIGNAL LOSS

Attorney Docket No.: 3926.013

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01-10-01  
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INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97 and §1.98

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the following documents for the above-identified application. Copies of the documents set forth below and listed on the attached Form PTO-1449 are provided herewith.

1. German Patent No. DE 43 08 398 A1;
2. European Patent No. EP 0 903 726 A2; and
3. Garcia-Bonito, J., et al.; Generation of zones of quiet using a virtual microphone arrangement; J. Acoust. Soc. Am 101 (6), June 1997, pages 3498-3516.

Document 1

German Patent No. DE 43 08 398 A1 (Tamamura et al), entitled  
"Gerauschverminderungssystem für den Fahrgastraum eines

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SERIAL NO.: 09/638,499  
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Kraftfahrzeugs" ("Noise reduction system for a passenger compartment of a vehicle") published September 23, 1993.

Document 1 corresponds to US Patent 5,485,523 and concerns an automobile compartment noise reduction system comprising an ignition signal transforming circuit processes an ignition pulse signal to obtain a vibration noise source signal with a frequency spectrum composed of  $0.5 \cdot n$  (integers) order components of the engine r.p.m. as the primary source signal. The signal is applied to an adaptive filter and an LMS calculating circuit via a speaker-microphone transmission characteristic correcting circuit. The primary source signal is synthesized by the filter into a cancel signal and then outputted through a speaker as canceling sound. The canceling sound is received by at least one error microphone at a noise receiving point as an error signal. The error signal is applied to the LMS calculating circuit. The LMS circuit updates the filter coefficients of the adaptive filter on the basis of the primary source signal and the error signal so that the error signal can be minimized. The noise reduction system has high reliability with low cost, and is easy to mount.

Document 2

European Patent No. EP 0 903 726 A2 entitled "Active acoustic noise and echo cancellation system" (Finn et al) published September 9, 1998.

Document 2 is in the English language.

Document 3

Garcia-Bonito, J., et al.; Generation of zones of quiet using a virtual microphone arrangement; J. Acoust. Soc. Am 101 (6), June 1997, pages 3498-3516.

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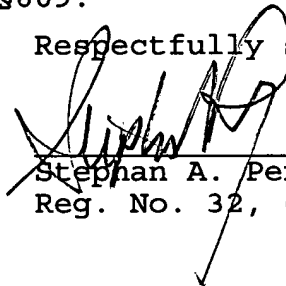
Document 3 is in the English language.

The present Information Disclosure Statement is being filed after three months from the application's filing date but before the mailing date of the first Office Action on the merits, therefore no Certification Under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedated or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,



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Dated: December 21, 2000

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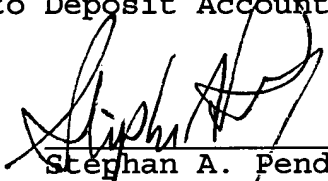
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**CERTIFICATE OF MAILING AND AUTHORIZATION TO CHARGE**

I hereby certify that the foregoing INFORMATION DISCLOSURE STATEMENT Form PTO-1449, including three documents, for U.S. Application No. 09/638,499 filed August 15, 2000, were deposited in first class U.S. mail, postage prepaid, Washington, D.C. 20231, on December 21, 2000.

The Commissioner is hereby authorized to charge any additional fees which may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 16-0877.

  
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Stephan A. Pendorf